

Abstract

The invention relates to a method for sealing a fibre-based material (1, 4) to a counter-surface to be bonded to it by melting polymer present at the sealing point. In accordance with the invention, the sealing is performed by directing a laser beam (8) through the fibre layer (4) of the material to a radiation-absorbing pigment disposed in the sealing area (9), with the absorption heat melting the polymer (5) and generating the sealing. The method allows sealing of plastic-coated paper or board to itself, to another plastic counter-surface or also to paper or board without any plastic coating. It is also possible to seal uncoated paper or board to paper or board containing plastic, such as plastic-coated paper or board, or to a plastic film. The absorptive pigment, e.g. carbon black, may be admixed in the plastic coating of the board or paper or the plastic film formed on the counter-surface, or the pigment may be located on the surface of the material to be sealed or its fibre layer, or on the counter-surface to which the material is sealed, e.g. as a component of printing ink applied to the counter-surface.